

Title (en)

Method for preparing ultraviolet radiation absorbing compositions

Title (de)

Methode zur Vorbereitung von UV-Strahlung absorbierenden Zusammensetzungen

Title (fr)

Méthode pour préparer des compositions absorbant les radiations UV

Publication

**EP 1092421 A2 20010418 (EN)**

Application

**EP 00308702 A 20001003**

Priority

US 15935699 P 19991014

Abstract (en)

A method for improving the storage stability of personal care formulations containing ultraviolet (UV) radiation-absorbing agents (sunscreen agents) is disclosed. Latex polymer particles containing a void, having a particle size from 50 to 1000 nanometers, and having at least 4% polymerized crosslinker monomer units in the shell portion of the particle are especially effective in maintaining storage stability and effectiveness of sunscreen formulations when added to personal care compositions containing at least one sunscreen agent.

IPC 1-7

**A61K 7/42**

IPC 8 full level

**A61K 8/00** (2006.01); **A61K 8/04** (2006.01); **A61K 8/11** (2006.01); **A61K 8/33** (2006.01); **A61K 8/37** (2006.01); **A61K 8/41** (2006.01); **A61K 8/42** (2006.01); **A61K 8/44** (2006.01); **A61K 8/49** (2006.01); **A61K 8/72** (2006.01); **A61K 8/81** (2006.01); **A61K 8/89** (2006.01); **A61K 8/891** (2006.01); **A61Q 17/04** (2006.01); **C08F 265/02** (2006.01); **C08F 265/04** (2006.01); **C08F 265/06** (2006.01); **C08F 285/00** (2006.01); **C08K 3/22** (2006.01); **C08K 5/00** (2006.01); **C08L 51/00** (2006.01)

CPC (source: EP KR US)

**A61K 8/0279** (2013.01 - EP US); **A61K 8/11** (2013.01 - EP US); **A61K 8/72** (2013.01 - EP US); **A61K 8/8147** (2013.01 - EP US); **A61Q 17/04** (2013.01 - EP US); **B82Y 5/00** (2013.01 - EP US); **C08F 265/02** (2013.01 - KR); **C08F 265/04** (2013.01 - EP US); **C08F 265/06** (2013.01 - EP US); **C08F 285/00** (2013.01 - EP US); **C08L 51/003** (2013.01 - EP US); **A61K 2800/413** (2013.01 - EP US)

Cited by

EP2272923A1; EP1757638A1; EP2011481A2; US2019133913A1; DE10138496A1; EP1310235A3; US2013309285A1; EP1281389A3; AU2005204288B2; FR2918269A1; EP2011481A3; EP1757639A3; EP2420525A1; WO2016097641A1; WO2017189301A1; EP1344803A1; EP3154510A4; EP3838255A4; WO2017222570A1; WO2019022914A1; WO2014010099A1; WO03013455A3; US10653588B2; US11185477B2; US11583480B2; EP1632537A1; WO2017112982A1; US11058613B2; WO2018113986A1; US11266584B2; US11523976B2; WO2012105060A1; WO2012105723A1; WO2018144298A1; WO2019022913A1; WO2017058404A1; EP1632537B1; EP1757639A2; US8501827B2; US8241613B2; WO2014192780A1; WO2014203913A1; WO2019209483A1; US10813875B2; US10973743B2; EP3154510B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 1092421 A2 20010418; EP 1092421 A3 20031022; EP 1092421 B1 20070321**; AT E357203 T1 20070415; AU 6242700 A 20010426; AU 783848 B2 20051215; BR 0004833 A 20010619; BR 0004833 B1 20111227; CA 2322345 A1 20010414; CN 1289057 C 20061213; CN 1293032 A 20010502; DE 60034000 D1 20070503; DE 60034000 T2 20071206; ES 2283277 T3 20071101; JP 2001172463 A 20010626; JP 2012122074 A 20120628; JP 4981205 B2 20120718; JP 5357282 B2 20131204; KR 20010050896 A 20010625; MX 220618 B 20040526; MX PA00009768 A 20020523; US 6384104 B1 20020507

DOCDB simple family (application)

**EP 00308702 A 20001003**; AT 00308702 T 20001003; AU 6242700 A 20001002; BR 0004833 A 20001013; CA 2322345 A 20000929; CN 00130475 A 20001013; DE 60034000 T 20001003; ES 00308702 T 20001003; JP 2000315732 A 20001016; JP 2012010068 A 20120120; KR 20000058830 A 20001006; MX PA00009768 A 20001005; US 67874900 A 20001003